

CLAIMS:

What is claimed is:

1 ~~Sub B2~~ 1. ~~A buffer management system comprising:~~
2 a buffer pool further comprised of an amount of fixed storage and an amount of
3 virtual storage; and
4 a buffer manager for dynamically varying the amount of fixed storage and the
5 amount of virtual storage based on a comparison of present usage of the amount of
6 ~~fixed storage and the amount of virtual storage to target values.~~

1 2. The buffer management system of claim 1, wherein the buffer pool
2 is further comprised of fixed, pageable and released logical partitions and each of the
3 buffers in the buffer pool resides in a state comprising one of said logical partitions.

1 3. The buffer management system according to claim 2, further comprising
2 a buffer index table further comprising buffer index elements wherein each entry
3 represents one buffer in the buffer pool.

1 4. The buffer management system according to claim 3, wherein said buffer
2 index elements further comprise a buffer state information field which represents the
3 logical partition where the buffer resides and a pointer field to the next available buffer
4 in the same state within the buffer pool.

1 ~~Sub B2~~ 5. ~~A buffer management system for an operating environment which~~
2 ~~supports both fixed and virtual storage comprising:~~
3 a buffer pool comprising a plurality of buffers logically partitioned into three
4 states, fixed, pageable and released, said buffer pool further comprising both fixed and
5 ~~virtual storage; and~~

6 ~~a buffer manager further comprising system target usage values for said fixed~~
7 ~~and virtual storage and a comparator for comparing actual fixed and virtual usage~~
8 ~~values to target usage values, wherein said buffer manager varies the amount of fixed~~
9 ~~and virtual storage used by moving buffers in said buffer pool between said logical~~
10 ~~partitions.~~

1 6. The buffer management system according to claim 5, further comprising a
2 a buffer index table further comprising buffer index elements wherein each entry
3 represents one buffer in the buffer pool.

1 7. The buffer management system according to claim 6, wherein said buffer
2 index elements further comprise a buffer state information field which represents the
3 logical partition where the buffer resides and a pointer field to the next available buffer
4 in the same state within the buffer pool.

1 8. ~~An article of manufacture comprising:~~
2 ~~a buffer pool further comprised of an amount of fixed storage and an amount of~~
3 ~~virtual storage; and~~
4 ~~a buffer manager for dynamically varying the amount of fixed storage and the~~
5 ~~amount of virtual storage based on a comparison of present usage of the amount of~~
6 ~~fixed storage and the amount of virtual storage to target values.~~

1 9. The article of manufacture according to claim 8, wherein the buffer pool
2 is further comprised of fixed, pageable and released logical partitions.

1 10. The article of manufacture according to claim 9, further comprising
2 a buffer index table further comprising buffer index elements wherein each entry
3 represents one buffer in the buffer pool.

1 11. The article of manufacture according to claim 10, wherein said buffer
2 index elements further comprise a buffer state information field which represents the
3 logical partition where the buffer resides and a pointer field to the next available buffer
4 in the same state within the buffer pool.

1 *Sub B4* 12. ~~An article of manufacture for an operating environment which supports~~
2 ~~both fixed and virtual storage comprising:~~
3 ~~a buffer pool comprising a plurality of buffers logically partitioned into three~~
4 ~~states, fixed, pageable and released, said buffer pool further comprising both fixed and~~
5 ~~virtual storage; and~~
6 ~~a buffer manager further comprising system target usage values for said fixed~~
7 ~~and virtual storage and a comparator for comparing actual fixed and virtual usage~~
8 ~~values to target usage values, wherein said buffer manager varies the amount of fixed~~
9 ~~and virtual storage used by moving buffers in said buffer pool between said logical~~
10 ~~partitions.~~

1 13. The article of manufacture according to claim 12, further comprising a
2 a buffer index table further comprising buffer index elements wherein each entry
3 represents one buffer in within the buffer pool.

1 14. The article of manufacture according to claim 13, wherein said buffer
2 index elements further comprise a buffer state information field which represents the
3 logical partition where the buffer resides and a pointer field to the next available buffer
4 in the same state in within the buffer pool.